# \$113,000 Raised at Sandia in **Contribution Plan Campaign**

Sandia Corporation Employees Contribution Plan was pronounced successful this week with a total of \$112,926.54 pledged or contributed to date. Goal of the SCEP was set at \$112,500.

The "Give Once and For All" campaign will benefit the United Fund and eight additional health and welfare agencies.

The \$113,000 total includes the

contributions of Sandia employees, Anderson - Dunham (Coronado Club concessionaire), \$325, the Coronado Club gift of \$350, and the Credit Union employees' contribution of \$150.

"We are deeply proud of the generosity of the contributors," Ken Kerns, campaign director, said. "This amount is a significant contribution to the health, charity

and recreation needs of the community."

"The SCEP committee," Ken continued, "is grateful to the more than 800 solicitors, including captains and squad leaders, whose efforts made the drive successful. Thanks go also to the men of the paint shop, carpentry shop, Technical Art Division and the print shop who turned out the material needed to conduct the drive.'



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ALBUQUERQUE, NEW MEXICO

**OCTOBER 31, 1958** 



VISITING Sandia Corporation last week was Dr. M. J. Kelly (center), President of Bell Telephone Laboratories and a member of the Sandia Corporation Board of Directors. He is shown here

talking with Maj. Gen. William B. Canterbury, Commander, Air Force Special Weapons Center, (left) and J. P. Molnar, President of Sandia Corporation. Meetings were held at Sandia Lab.

# President of Bell Labs Visits Sandia; Patent Fundamentals **Board of Directors Here Next Week**

Dr. Mervin J. Kelly, President of the Bell Telephone Laboratories and a member of the Sandia Corporation Board of Directors, met with officials of the Corporation last week during his last visit here prior to his retirement next

While at Sandia Dr. Kelly heard technical presentations from the Research and Development organizations and the Operations organization and then left for Livermore, California, for briefings with Sandia Branch and UCRL officials.

Other members of the Sandia Corporation Board of Directors will meet in Albuquerque next week and attend technical briefing sessions. They will meet at Sandia Nov. 4 and 5 and leave Nov. 6 for White Sands Proving Grounds.

Members of the Board who will be here are:

Arthur B. Goetze, President of the Western Electric Company: Paul R. Brousse, Vice President, Manufacturing Division, Western Electric Company; C. Raymond Smith, Vice President, Radio Division, Western Electric Company; Walter L. Brown, Vice President and General Counsel, Western Electric Company and Ralph L. Helmreich, Vice President and General Manager of Bell Telephone Laboratories. Accompanying the Board will be Norman Frame, Secretary of the Western

Electric Company and Assistant Secretary, Sandia Corporation Board of Directors. Sandia Corporation members of the Board are J. P. Molnar, President of Sandia Corporation, and S. P. Schwartz, Vice President and General Manager, Sandia Corporation. Kimball Prince, General Attorney, Secretary and Treasurer of Sandia Corporation is Secretary of the Board.

# Commissioner Coming Here for Briefing

John S. Graham, a member of the Atomic Energy Commission for the past year, will pay a visit to Sandia Laboratory next week. He will attend the luncheon meeting of the Sandia Corporation Board of Directors and Small Staff at the Coronado Club Tuesday, Nov. 4. and during the afternoon will receive a briefing on various aspects of Sandia Laboratory activi-

Wednesday morning Commissioner Graham will visit Area III and will inspect other Tech Area facilities as time permits.

He last visited Sandia in September, 1957, with the group accompanying Secretary of Defense Neil H. McElroy. In private life Commissioner Graham is a financial and business consultant in Washington, D. C.

# Talk Given at UNM

discussed by Gene C. Newlin (6010) of Sandia Corporation's patent office last week with three classes of senior electrical engineering students at the University of New Mexico.

# Radio Club to Elect

Sandia Base Radio Club will not hold its regular meeting Nov. 11 due to Veteran's Day holiday Election of officers will be held at the Nov. 25 meeting at the Radio Club Room on Sandia Base

Fundamentals of patents were

American Society of Tool Engineers will hold a dinner meeting Wednesday, Nov. 12, at 7 p.m. at Robin Hood Inn. A representative of the Fosdick Ma-Co. will speak on chining at Five Tolerances."

contacting Jim Reese (2553) at

# Report on Soviet Propaganda Techniques to be Shown Nov. 2

"The Red Sell," a special, twopart documentary report on the Soviet Union's determined propaganda offensive against the United States, will be presented locally on Channel 13, KGGM-TV, Sunday, Nov. 2 and Nov. 9, 4:30 to 5:00 p. m.

The program is sponsored by the Prudential Insurance Company of America, and is part of "The Twentieth Century" series. CBS News Correspondent Walter Cronkite will narrate.

The initial program is entitled "The Red Sell: The Propaganda Mill." Part II, the Nov. 9 program, is entitled "The Red Sell: Report From the Targets.'

Part I of "The Red Sell" unveils the ways, means and aims em-

ployed by Communist Russia to wage its increasingly aggressive propaganda war against the West. Through the use of remarkable film footage obtained especially for this report, "The Twentieth Century" will show viewers how the Soviet Union manipulates the thoughts of unsuspecting peoples around the world through its clever use of Communist propaganda machinery.

Part II, "Report From the Targets," takes the television audience to the prime goals of Russian propaganda throughout the world. Five CBS newsmen will report Part II of "The Red Sell" from Southeast Asia, India, Finland. South America and Middle East.



\$113,000, which is a substantial increase over last year's goal. At right is R. A. Knapp (7130), SCEP committee deputy chairman.

# Vote Nov. 4!

Tuesday, Nov. 4, is to get out and vote your ballot with intelligence and knowl-

Polls will be open from 8 a.m. to 7 p.m. and all Bernalillo County voting places, except four mountain communities, will have voting machines this year.

For the information of Sandia employees a number of sample ballots have been placed throughout the Corporation during the past

# Hold Those Christmas Cards and Put Money To Much Better Use

As in previous years the exchange of Christmas cards among employees within the Corporation is being discouraged.

It has been the custom among many Sandia organizations for their members to contribute the amount of money that would have been used for purchase of cards into a fund for clothing or food for less fortunate families.

Further information concerning recipients for holiday giving will be available later in November and will be published in the Lab

# ASTE Meets Nov. 12

Reservations may be made by

# Superintendent of **Programming**

LeRoy Shelhamer

LeRoy Shelhamer has accepted the newly created position of Superintendent of Programming (2600), effective Nov. 1. He has been with the Western Electric Company for nearly 30 years.

This superintendency now includes the Program Administration, Status and Results Depart-



LeRoy Shelhamer

\_heads new organization\_

ment, two divisions working on Program Administration Status, a Budget and Results Division and three sections.

Mr. Shelhamer comes to Sandia from the Eastern Area of the Western Electric Company where he had been Superintendent of Program and Stock Maintenance (Merchandise and Service Organization Area "A," Manufacturing) since Jan. 1, 1957, for the Kearny and Merrimack Valley Works.

His career with the Western Electric Company started in 1929 in Kearny. He was promoted to section chief in equipment service in 1941 and was advanced to the department level in 1944. Eight years later Mr. Shelhamer was made Assistant Superintendent of several assembly and wiring shops.

In 1953 Mr. Shelhamer transferred to the company headquarters in New York City for new responsibilities in the manufacturing division. He advanced to Assistant Superintendent of Program Planning, telephone sales division, before being assigned to the Eastern Area Office as Superintendent of Program and Stock Maintenance.

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Donald E. Graham, Cherry L. Burns, June Leonar William A. Jenkins, Livermore Branch



Telephone Sandia Base ALpine 6-4411 Ext. 25253, 26135



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# Strength For Your Life

"Find Strength For Your Life . . . Worship Together This Week" will be the theme of the tenth annual Religion in American Life Program to be observed across the nation in November.

The objective of this program is to encourage every American to attend the church or synagogue of his choice. It is the privilege of every free American to worship whenever, wherever, however they choose. And it's a privilege we all should take advantage of.

"Go tell it to the chaplain," was a familiar GI phrase. Yet it defines a role that religious faith has willingly assumed for centuries — that of an always-dependable source of strength. Find new strength for your life . . . worship together this week.

# Congratulations

#### Born to:

Mr. and Mrs. D. J. Roth (1222) a daughter, Jeanne Gayle, on Oct. 16.

Mr. and Mrs. Jimmy B. House (1225) a son, Bryon Scott, on Oct. 14.

Mr. and Mrs. A. J. Shell (5132) a daughter, Sandra Dawn, on Sept. 4.

Mr. and Mrs. Calvin B. Rogers (5242) a son, Jason Lee, on Oct. 6. Mr. and Mrs. John S. Anderson (8162-1) a daughter, Kristene,

on Oct. 10.

Mr. and Mrs. George Cosden (2713-1, New York office) a daughter, Amie Beth, on Oct. 9.

Mr. and Mrs. Adin Sponseller (2713-4) a daughter, Connie Lynn, on Oct. 15.

Mr. and Mrs. Pablo Maes (2721-1) a son, Pablo, Jr., on Oct. 15.

Mr. and Mrs. Frank Chavez (2721-2) a daughter, Geraldine, on Oct. 4.

Mr. and Mrs. J. H. Scott (5254) a daughter, Tracy Lea, on Oct. 14. Mr. and Mrs. Wilfred Otero (7423-2) a daughter, Bernadette, on Oct. 9.

### SYMPATHY

To H. L. Smith (2131-3) for the death of his mother in Texas Oct. 3.



Lydia Villanueva (7225)

# Take a Memo, Please

Safety is always in season at Sandia Corporation. It's a year'round thing on the job. During leisure hours, heed the warnings given to hunters and fishermen, beware of hazards around your home, and think of "safety" first while on the highways.

#### Benefit Sale

Ever clean out closets and shelves and wonder what to do with the miscellaneous items you no longer wish to keep? Such items are needed for a rummage sale to be held in early December for the benefit of retarded children at the Los Lunas Hospital and Training School.

The sale will be sponsored by PALS, an organization consisting of parents and friends of youngsters of the school. Greg Abeyta (5211) is president of the group and may be contacted at ext. 46144 or AL 5-5369 for further information. Arrangements for donations may also be made by calling AX 9-6526.

### Service Returnees

Back on the job after military service are Gibson Guernsey (2152) and William J. Barlow (1411).

Gibson was in the Army Ord-



G. Guernsey

rnsey W. J. Barlow

nance Corps for two years, all except six months stationed near Frankfurt, Germany. He started work at Sandia in July 1954.

Bill returned from six months training in the Army at Fort Belvoir, Va., and Fort Meade, Md. He has worked for the Corporation since June 1957.

### Moving Time

Mr. and Mrs. Lyle Whelchel (TDSR for 1260) have moved into their new home at 2008 June NE.

Joe Highfill (2525-3) explains he's moved "from the sticks to the city; from the river bottom to the mountains" and the reason for it all is "allergies!" The new address is 2100 June NE.

Lee Davies (8151) and his family moved into their new home recently. Their new address is 983 Hillcrest Court, Livermore.

Mr. and Mrs. Henry Passmore (7411) are well-settled in their new home at 2009 Martha NE.

### Dog Show News

During the recent Dog Circuit shows in this area C. A. "Lee" Leemhuis (5522) finished championiships for four dogs out of six shows.

Louise "Pat" Patterson's (7223) Welsh Terrier Burning Bright was one of those shown by Lee in El Paso that finished championship. Pat also owns the father of the two other Welsh Terriers that took championship honors.

The fourth dog, a miniature Schnauzer, was flown from the East Coast to be handled by Lee.

# Weddings and Engagements

Martha A. Couch (2525-3) has announced her engagement to Dick Shay of Central City, Iowa, and plans for their marriage on Thanksgiving Day. The ceremony will take place in Central City.

The bride-to-be has been employed at Sandia since last May.



Miss Couch Miss Jaramillo

December 6 has been set for the wedding of Antonia M. Jaramillo (2525-3) and Ambrose L. Garcia of Albuquerque.

The ceremony will take place at Our Lady of Belen Church in Belen, the bride's home town. The couple will reside in Albuquerque.

"Tony" has worked for the Corporation since March 1957.

Another December bride will be Joan Russell (2525-3), who will marry Donald R. Kiger at the Kirtland AFB Chapel on Dec. 6 at 4 p.m. The couple will honeymoon in California.

Joan has been at Sandia for the past two and one-half years. They plan to remain in Albuquerque until the bridegroom completes his military service.



Miss Russell Miss Farnam

A family barbecue was the scene for the official engagement announcement of Lenore Farnam (8212-3) and Jack C. Whalen of Pleasanton, Calif.

Lenore has been employed with Sandia's Livermore Laboratory since Aug. 5, 1957.

A Washington's birthday wedding is planned, followed by a honeymoon in Canada. The couple plans to make their home in Pleasanton.

Barbara Branom (1592) has decided on Jan. 3 for her marriage to A/2C Gordon L. Tanner at the Kirtland AFB Chapel.

Barbara has worked for Sandia for four years.

The Aquinas Newman Center on the University of New Mexico campus will be the scene of the marriage of Linda B. Kopp (1283) to Charles N. Hale on Jan. 10.

For the past six months Linda has been employed by Sandia Corporation.



LIVING PROOF that he didn't die back in 1918 is shown by Stanley Krell (3153), who holds his death certificate from the U. S. Army.

# 'Twasn't So — And Stan Krell Is Living Proof That Uncle Sam Erred

Few people carry around their own death certificates, but Stanley Krell (3153) has one dated back in 1918 when he was in the Army during World War I.

As "Stan" tells it, a group from his "Rainbow" division had unknowingly spent the night in a fox hole in an area where the enemy was releasing gas.

Early the next morning the men were alerted by a sergeant wearing a mask, but no one appeared affected. Later while "digging in" to set up their automatic rifles, they started feeling sick.

The men informed the sergeant they were going to check in at a first aid station, but the sergeant was killed before he had a chance to report where the soldiers had gone.

Stan was immediately sent to a hospital where he spent several months.

In October his parents received the certificate stating that PFC Stanley Krell had been killed in action in July. But they realized they had received several letters from Stan after the date the certificate said he had been killed. By checking, they were able to determine that Stan was alive and soon he was on his way home.

# Welcome Back

Organization 2722 is glad to see David B. Thomas back at work after his lengthy illness.

Also back at work is Jack Benson (4321) after a recent bout in the hospital.

Stella Rappleyea (2722) has also returned after illness.

Sick List

Wishes for a speedy recovery are extended to Luther Martinez (2242), who has been ill for many weeks and has undergone several operations at the Veteran's Administration hospital.

A speedy recovery is wished to Wendell Eskridge (2234).

George Lynn (2234) has also been out a long time. Co-workers hope to see him back soon.

Organization 2711 wishes Dorothy Fletcher a rapid recovery from her recent operation.

On the sick list for some time has been Don Morison (1217-1). Hopes are extended for his speedy return.

### More Fair Winners

Lab News reporter M. J. Davis (5513) reports that thanks to his "practically 100 per cent inefficiency" for the third year in a row Everett Ard (5511-3) again searched in vain for his name among the Sandians who won prizes at the State Fair.

Everett is the proud but unheralded recipient of two firsts, two seconds, and one third place trophy for his handsome HO display in the train division of the Hobby Section.

Alas, other Sandia winners were reported too late for the last issue. They are: Ivan M. Moore (7110), 12 firsts, 15 seconds and 18 thirds for his dahlias; Fred I. Magee (7113), two seconds and one third for three of his five roses submitted in competition; Edward L. Harley (7111), third in the Racing Homing Pigeon division; seven ribbons in the Gem and Mineral Exhibit division went to Ellen Wood (2525-2).

### New Heir

Mr. and Mrs. John F. Buyers (7131) welcome a newcomer into their home, little Ann Therese born Aug. 25.

### Nearly Perfect

Henri Guerin (2152) really set the balls a-rollin' to score an enviable 279 in competition in the Sandia major bowling league. He plays for Bob's Drive-In. He made all strikes except one spare in the eighth frame.

Another high scorer is Henry Sellers (2151-1) who chalked up a 644 for three games.

### Detective Needed

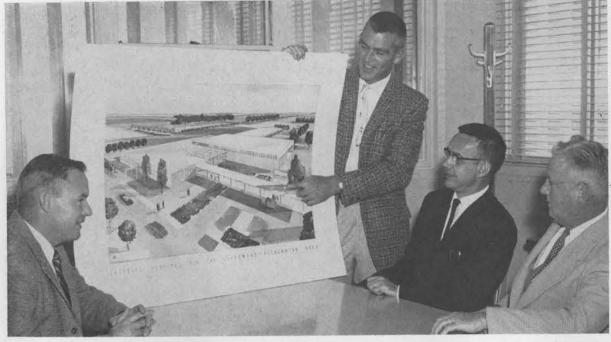
Common problems on automated systems for information retrieval were discussed at a conference at the University of Texas attended last month by Bertha Allen and Charles Sargent (both 7221-1) and Bill Paulus (1522).

Approximately 50 librarians and other information specialists from five states attended the two-day session.



HIGHEST PARTICIPATION in the Sandia Corporation Supplemental Group Life Insurance program was turned in by the International Guards Union of America, Local Number 27. As enrollment closed today, Sandia Guards had participated 98.7 per cent in the program. Here Webb Shafer (3242), Guards Union President, (left) and G. A. Parker, Jr., (3200) admire the outstanding record. Guards at Sandia in Albuquerque signed up 100 per cent.

Supervisory Appointments



VALLEY MEMORIAL HOSPITAL fund drive is discussed by (L to R) W. A. Jamieson, L. E. Hollingsworth, W. J. Howard and C. W. Campbell. pay for the hospital's most modern delivery room.

A two-day campaign starts Nov. 10 at Livermore with the Sandia goal \$30,000, which will

# \$30,000 Livermore Lab Goal For Valley Memorial Hospital

Sandia's Livermore Laboratory employees are joining residents of the Livermore Valley in an intensive drive to raise funds for construction of the Valley Memorial Hospital.

Sandia will kick-off a two-day campaign on Nov. 10. The employee goal is \$30,000, to be raised over a three-year period with payroll deduction pledges.

W. C. Scrivner (8150), chairman of the Sandia drive, said that the Sandia employees' contribution will pay for the Hospital's delivery room. The room will bear a bronze plaque stating that the room is presented by Corporation employees.

The Sandia campaign is part of an area-wide solicitation program to start Nov. 10 among workers in nearly 30 large industrial plants and business offices. L. E. Hollingsworth (8120) is chairman of this area-wide drive to raise funds for the 46-bed, non profit, community-sponsored hospital.

Letter to Employees

In a letter to be mailed to all employees in the area, Mr. Hollingsworth points out that the Livermore-Pleasanton area now has only a 23-bed, 30-year-old, privately owned hospital to serve

# Willard Benson to Receive PhD Degree

Willard Benson (7113) completed his requirements for a PhD degree in industrial education at Wayne State University, Detroit, last month. He had finished all except his oral exams before coming to work for Sandia a year ago in military liaison (7113). The degree will be awarded Jan. 28,

His Bachelor's and Master's degrees were obtained at Stout State College, Menomonie, Wis. Prior to coming to Albuquerque, Mr. Benson taught at Stout State College and Southern Illinois University.



CHARLIE SPIVAK and his orchestra will be at the Coronado Club Nov. 14. Tickets go on sale to members Nov. 4 at \$2.20 each. Guest tickets will be sold after Nov. 11 at \$3.30 per person. 25,000 residents in the fast growing

"Federal and State matching grants covering more than half the construction cost of a nonp ofit general hospital have been allocated to us with the requirement that we raise our share of the total cost - \$525,000 - in three-year pledges by the Dec. 12 deadline."

In effect, to qualify for the \$587,288 in Federal and State matching funds, people in the area must contribute the \$525,000 in pledges and cash by Dec. 12 or the allocation will go to another California community. The law does not allow for an extension of time, Mr. Hollingsworth said.

If the campaign fails, the need for a hospital is so great that a tax district hospital would have to be formed. Interest charges alone on a 20-year bonded debt would amount to about \$400,000. This is the most expensive way to build a hospital, he noted.

Site Not Selected

The site of the hospital has not yet been selected. Plans are to locate it between Livermore and Pleasanton. The hospital will be-

# Double Movie Offering For Winter Noon Hour

Sandia Corporation's noon hour movies will go on a new schedule Nov. 11 enabling employees to see two complete Hollywood offerings

The first halves of two different films will be shown simultaneously in Bldgs. 802 and 849 on Tuesdays. The following day the second parts will be viewed. On Thursdays the movie already shown in Bldg. 802 will go to 849 and vice versa. Fridays will be the wind-up of both movies.

For those who confuse easily, the movie schedules will be posted every month on the unofficial bulletin boards.

Movies to be shown during the coming year range from westerns and comedies through international film classics. Included in the list are: "All That Heaven Allows" with Rock Hudson and Jane Wyman; "Winchester '73" with James Stewart and Shelley Winters, and Gilbert and Sullivan's "The Mikado."

The films are shown from 12:05 to 12:55 p.m. and are free. The Bldg. 802 showings are in basement room 6.

# Civic Chorus Seeks Additional Members

Singers are being sought for the Albuquerque Civic Chorus, which is already in rehearsal for the Dec. 14 presentation of Handel's Messiah at the Civic Auditorium.

Rehearsals are held every Tuesday at 7:30 in the Albuquerque high school music room (Tijeras entrance). Interested persons may contact James R. Dillard (2243) for further information.

hospital administrator who will employ the staff.

donations of at least \$3 per month for the three-year period. "This," he said, "will amount to \$108 over the three years, entitling the donor to voting membership."

investment, not a charity donation, in your own and your family's health protection," he said.

Jamieson Assists

the drive is W. A. Jamieson (8212), who heads the residential drive in the area. R. E. Poole (8000), W. J. Howard (8100), and Mr. Hollingsworth are members of the hospital board of directors.

(8210) and Jack Renaud (8220).

special solicitor, Bob Thomas (8213-1) will handle the pledge cards and tabulation, and Bill Jenkins (8221-1) will handle publicity.

long to all people in the area. No one will profit from its operation. Those who contribute \$100 or more to the building fund will vote annually for board members. The Board of Directors will engage the

Mr. Hollingsworth called for

"This is an opportunity for an

Assisting Mr. Hollingsworth in

Squad leaders and their assigned organizations are: Al Ford (8110), Bill Guntrum (8120), Vern Field (8140), Ray Sheppard (8150), John Anderson (8160), Bill Ryan

Leo Gutierrez (8140) will act as

Ralph came to the Corporation five years ago directly from the University of Colorado where he received a Bachelor's de-

Components Di-

gree in Electrical Engineering. Previously he had attended Colorado College.

RALPH E. HAMPY to supervi-

vision.

sor of Section 1452-3, Electronic

During World War II, Ralph served in the Army. Afterwards he was a station manager for Frontier Airlines for three years in Monte Vista, Colo.

While attending college he participated one summer in Westinghouse Electric's student training program in Baltimore.

He is a member of Tau Beta Pi, engineering honorary, Eta Kappa Nu, electrical engineering honorary, and the Institute of Radio Engineers.

JOSEPH W. McDOWELL to supervisor of Supplier Evaluation

Section 2514-5. Organization Engineering Division.

"Joe" has been with the Corporation for two years in industrial engineering.

Before moving to Albuquerque he was employed by International Latex Corporation, Dover, Del., for six years as a production department man-

He also worked three years as an industrial engineer for Atlantic Refining Company in Philadelphia.

Joe received a Bachelor's degree in Mechanical Engineering from Drexel Institute of Technology and is a member of Pi Tau Sigma, mechanical engineering honorary, Tau Beta Pi, engineering honorary, and American Institute of Elecrtical Engineers. He is a registered professional engineer in New Mexico.

During World War II, Joe served three years in the Army Air Force, part of the time with the 15th Air Force in Italy.

Sandians Who Serve . . .

# Scouting Attracts Father of Four Boys Still Too Young to Be Scouts

This is another in a series of articles describing the community activities of Sandia employees.

Although Jim Brown's four boys are all under scouting age (5 months to 61/2 years), that doesn't stop him from leading a troop of 35 boys at St. Luke's Lutheran

Besides weekly meetings with his scouters, Jim takes them on hikes and overnight camping trips to help them "get formalized instruction in cooking, camping and living outdoors."

Jim says anything is liable to happen on these outings. "We have lots of parents who accompany the boys and they usually are the ones who end up getting

Once on a compass exercise, one of the boys got lost and the rest of the troop spent almost the entire day looking for him. Meanwhile, the "lost" boy had found his way back to the highway, and telephoned his parents to pick him up and take him home.

The troop has had no serious accidents in more than three years. The only accident they've ever had which could be termed serious was when a boy cut his finger and stitches were required.

Jim is well qualified to handle any emergencies which may arise. He is a Qualified First Aid In-



James T. Brown

structor/Trainer at Sandia where he works in 5511.

He also takes part in the district training activities for the Boy Scouts. He spent several weeks at Philmont Scout Ranch, Cimarron, N. Mex., this summer to qualify as a trainer.

As for his boys, Jim thinks he'll have four pretty good scouters in the future.

R. R. BEACH to supervisor of Packaging Section I, 2552-2, Man-

ufacturing Design Division B.

During the six and one-half vears he has been at Sandia, "Ross" has worked both in handling equipment design and packaging

research and development.

Previously he was a test and research engineer for two years for North Electric in Gallion, Ohio.

His BS degree in Mechanical Engineering was awarded at Georgia Institute of Technology. He is a registered professional engineer in New Mexico.

Ross served three years in the Army during World War II and is presently a captain in the National Guard.

RICHARD A. KAVET to supervisor of Packaging Section II,

2552-3, Manufacturing De sign Division B.

"Dick" has worked in Manufacturing Engineering Department 2550 since he started with the Corporation four

and one-half years ago.

Immediately prior he had worked three years for Westinghouse Electric Co., Bloomfield, N. J., as a manufacturing engineer in the lamp division.

Dick attended Seattle University and graduated from the University of Colorado in 1952 with a BS degree in Mechanical Engineering. He is a registered professional engineer in New Mexico.

ROBERT G. SCHARRER to supervisor of Data Engineering

Section 5243-1, Electronic Services Divison.

"Bob" has been with the Corporation seven and onehalf years, first at Salton Sea where he was made supervisor

of the Timing and Control Section in July 1953, and since 1955 in Albuquerque in high-time resolution telemetry work.

At the University of Michigan he received a BS degree in Electrical Engineering and was elected to Eta Kappa Nu, electrical engineering honorary, Tau Beta Pi, engineering honorary, and Phi Kappa Phi, scholastic honorary.

Bob is a member of the Institute of Radio Engineers and the National Society of Professional Engineers and is a registered professional engineer in New Mexico and California.

He served 14 months in the Navy during World War II.

LOUIS P. BAUDOIN to supervisor of Drafting Section A IV,

7411-4, Drafting Department.

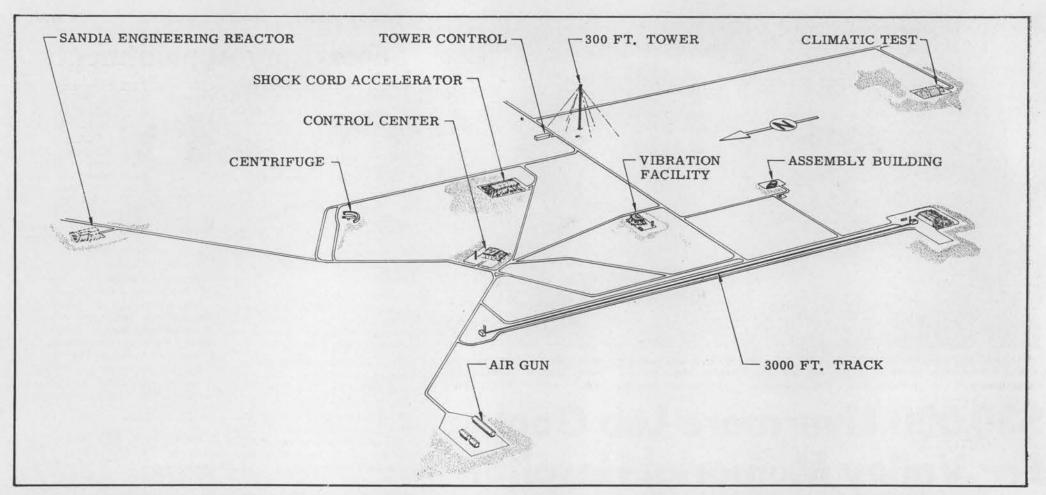
At Sandia, Louis has worked in drafting for nearly four vears.

Previously he was with Timpte Brothers' Al-

buquerque branch for five years as shop lead man.

His work experience also includes four years of selling for Gopher Welding Supply Co. in Rochester, Minn., and a year and a half as a die cast machine operator for the Johnson Motor Co. in Waukeegan, Ill.

Louis received a certificate in Mechanical Engineering from the International Correspondence School and also attended RCA Institute in Chicago.



# World's Environments Created In Remote 3-Square Mile Area

Amidst tumbleweeds and gopher holes, Area III, five miles south of Sandia Corporation's main technical area, contains one of the most complete environmental testing laboratories to be found anywhere in the United States.

In this outdoor laboratory objects can be dropped, shaken, spun around, catapulted, and propelled at super-sonic speeds to simulate environments which nuclear weapons may encounter from manufacture to delivery to a target.

This facility, occupying three square miles, is now valued at \$2,245,000. New additions, planned for next year, will increase the value to more than \$5,000,000.

An airline passenger flying over this installation might imagine this sprawling area to be a set for a Hollywood science fiction movie.

What he would see would be a tower rising 300 feet from the mesa, centrifuge with a boom measuring 40 feet in length, a railroad track seeming to start and end nowhere, and several roads criss-crossing the mesa to connect what appear to be large mounds of earth.

### Protective Housing

These mounds are actually earth covers of buildings which house much of the instrumentation, equipment and personnel in the area. The barricades are necessary to protect personnel and equipment from possible harm during tests where conventional explosives and flying objects create a hazard.

The first facility to be put into operation in Area III was a 1000 ft. sled track(now extended to 3000 feet) which was completed in 1953. Weapon components are propelled down the track by rockets at speeds more than twice that of sound for acceleration and shock testing.

Until recently the track was used exclusively for impact testing of weapon components in which test devices were fired into targets at the end of the track. The targets are made of earth, concrete, wood and steel. Last month a water brake was put into use, permitting deceleration and recovery of components, when required.

The 300-foot drop tower is used to test the effect of shock on components and their ability to operate after such shock. Tower drops can subject a 3000-pound specimen to a vertical velocity of 130 feet per second and a horizontal velocity of 60 feet per second.

### Simulates Catapulting

To simulate environments of missile launching, catapult

launching of aircraft, aircraft arrestment, power failure on take-off, ditching and similar conditions, a shock-cord accelerator was constructed in Area III. This facility, operating on the same principle as a child's slingshot, can accelerate test devices weighing as much as 18,000 pounds to more than 17 g's.

A hydraulic powered centrifuge was constructed in Area III to simulate loads imposed on weapon components by missile acceleration and jet aircraft. The Sandia centrifuge can produce a 100-g acceleration on 2200 pound objects and a 50-g acceleration on 9000 pound objects.

More recent additions to this structural torture area are a 26-inch diameter air gun with a barrel more than 100 feet long and a vibration facility that is the largest in existence today.

The gun uses compressed air to fire test components down the barrel at speeds ranging from 10 to 1100 feet per second. A maximum of 2500 g's can be exerted on

test components in the gun and up to 5000 g's on impact.

### Giant Shake Table

Test components weighing up to 10,000 lbs. can be mounted on the vibration facility and shaken up to frequencies of 500 cycles per second. The shaker, which produces 25,000 pounds of force, can subject units weighing 10,000 pounds to 2.2 g's and 1000 pounds to 20 g's.

Scheduled for completion next summer is a \$1,400,000 climatic chamber and high temperatury test facility which will be used to expose weapon systems to tropical and arctic conditions as well as thermal shock. Thermal shock tests will simulate such conditions as the release of a weapon from a bomb bay at 600 degrees Fahrenheit into an outside temperature of -65 degrees F.

Also planned for completion by spring of 1960 at a cost of \$2,900,000 is the Sandia Engineering Reactor Facility, a 5000 kilowatt tank-type nuclear reactor to subject materials to nuclear radiation combined with

(Continued on Page 5)



SHOCK ABSORBERS on 300-foot drop tower in Area III check recoil when cart descends cable. The tower is used to test the effects of shock on a variety of strategic materials.

AREA III FACILITIES, shown in this artist's sketch, offer Sandia engineers one of the most complete environmental testing laboratories in the country today. Except for the reactor and climatic test chamber (to be constructed shortly) all facilities are in operation.



FIRING PANEL and control console for the rocket sled track is operated here by L. R. Myers (1613-4). On the TV monitor screen is a close-up of the Nike Booster rocket on a test stand near the track which was fired shortly after this photo was taken.



NIKE BOOSTER ROCKET fired in Area III on test stand provided research information to Aerodynamics Department (5140).







D. C. Davidson

# In General Election Tuesday, Nov. 4

New Mexico election ballots on Nov. 4 will include the names of three Sandia Corporation employees who were successful can-

The candidates are: Donald C. Davidson (2525), Harry E. Kinney (1283), and John K. Merillat (3151-1).

Mr. Davidson, an administrative versity of New Mexico.

# 2500 Football Team Leads League With

untied and unbeaten teams in the Sandia Corporation Flag Football League, met last week in a show-

touchdowns and passed for another in pacing the 2500 victory.

and two tied moved into second place in the league by virtue of the 2400 loss.

follows:

FLAG FOOTBALL STANDINGS Oct. 24 Ties Wins Losses

# Football Schedule

Corporation Flag Football League for the next two weeks are as fol-

Engineering was awarded him at the University of New Mexico and he has done graduate work at Cornell. During World War II Mr. Kinney served three years in the Navy and was recalled for two years during the Korean conflict.

Mr. Merillat, staff employment representative, Employment Division, is seeking office as County School Superintendent, Republican ticket. For the past 10 years he has worked for Sandia. Before coming to Albuquerque he received a Bachelor's degree in Mining Engineering from the University of Arizona. The term of office is for two years.

# Musical Comedy Star to Entertain Sanado Club

Sanado Club members will be entertained Nov. 4 by Susie Poole, soprano with an extensive background of musical comedy, TV and concert appearances, who will offer "Stardust surrounding Gertrude Lawrence."

Her pleasing tonal and mimical interpretations of Gertrude Lawrence will be highlighted by personal glimpses into her professional life. Mrs. Poole played the role of "Agatha," a mission "doll," in the original Broadway production of "Guys and Dolls," appeared in Mike Todd's production of "One Night in Venice" and was in the Oakdale Summer Theatre offering of "Pal Joey."

On coast-to-coast TV she has appeared in "Two's Company," 'South Pacific" and "Casey at the Bat." She has also made a concert tour of Germany, France and Canada under auspices of the State Department.

The soprano will be accompanied by Paul Muench with Mrs. Howard Viney giving the introduction.

Tea will be served at 1:30 p.m. with the program following. Mrs. D. M. Bruce and Mrs. Edward Ronan are chairmen for the event.

Reservations must be made by tomorrow by calling reservation chairman Mrs. R. T. Othmer, or Mrs. James Brown and Mrs. Paul Syroid.

# Wilderness Hearings

Congressional hearings on a proposed Wilderness Preserve Bill. which includes the Gila and Pecos areas in New Mexico, will be held in Albuquerque on Nov. 14 at the Federal Building.

Persons interested in details of the proposed legislative measure are invited to contact Bert Lindsay (5126) at AL 5-7158 or Zelma Beisinger (also 5126) at AL 5-3117.

# Three Employees Seek Public Office

didates in the May primary voting.

staff assistant in Manufacturing Engineering Administration, is running for the State Legislature, position 7, Republican ticket. A Corporation employee since January 1957, he previously served five years in the Air Force and was stationed most of the time at Sandia Base or Kirtland AFB. Mr. Davidson is presently completing work on his Bachelor's degree in Business and Government at the Uni-

Mr. Kinney, who works in the Weapons Facility Division, is seeking re-election to a two-year term as a County Commissioner, District 1. Republican ticket. He has been with the Corporation two years. A Bachelor's degree in Mechanical

# Four Wins, No Losses

Teams 2500 and 2400, only two down battle for first place.

The 2500 team registered an easy fifth victory 27-0.

Ron Zottnick (2511) ran for two

Team 5500 with two games won

League standings as the Sandia Lab News went to press were as

Games scheduled in the Sandia

Saturday	1404. 1
5100 vs. 2500	8:30 a.m.
1600 vs. 1400	9:45 a.m.
2400 vs. 2700	11:00 a.m.
Saturday	Nov. 8
2100 vs. 5200	8:30 a.m.
1400 vs. 2500	9:45 a.m.
2700 vs. 5500	11:00 a.m.
Thursday	Nov. 6
2500 vs. 5500	6:45 p.m.
2400 vs. 5100	8:15 p.m.
Thursday,	
2400 vs. 5200	6:45 p.m.
2700 vs. 1400	8:15 p.m.

# **Hunters Cautioned on** Handling of Firearms

dia more than six years and was

Equipment Section (2554-1).

Staff Member in Field Test

Survivors include his widow and

two daughters, who live on Sandia

Base, his mother, two protners

and a sister, all residing out-of-

(Continued from Page Four)

environments of heat, cold, vi-

Projected for construction at a

later date are a complex wave vi-

bration system, a radiant heat facility and an acoustic test cham-

ber. The complete-wave facility will

simulate vibration environments

of rocket-powered, ramjet-pow-

ered and jet-powered weapon car-

riers. The radiant heat installation

will simulate conditions present

when a missile re-enters the

earth's atmosphere and the acous-

tic chamber will simulate noise

energies of rocket motors and jet

gineering Test Reactor, all en-

vironmental test facilities in Area

III are operated by the Area III

Activities Section (1613-4), headed

by William H. Cross. The reactor

will be operated by the Radiation

By providing full scale testing

under laboratory conditions Area

III facilities afford Sandia's de-

velopment engineers an accurate

and relatively inexpensive means

of determining the effects of var-

ious environments on experimen-

Harold T. Cushman Dies;

Funeral services were held last

who died Oct.

19 at the Vet-

eran's Adminis-

tration hospital

from leukemia.

Burial was in

Fall River,

Mr. Cushman

had been em-

ployed at San-

Mass.

week for Harold T. Cushman, 33,

Worked Here Six Years

H. T. Cushman

tal weapons and components.

Effects Division (1626).

With the exception of the En-

engines.

Environments . . .

bration and altitude.

With large numbers of Corporation employees, their families and friends, cleaning their rifles and heading for hunting areas it's time to re-emphasize firearm safety.

Actually, there are but two simple firearm safety rules which, if followed, would eliminate the majority of firearm accidents. These

1. Carry a gun with a cartridge in the firing chamber only when you intend to fire it immediately.

2. Handle a gun at all times as if it were loaded and ready to fire.

AEC and contractor personnel who, in the course of their work, carry and use firearms, can prevent on-the-job accidents if they constantly insist upon rigid enforcement of safe practices in the handling and use of firearms at all times.

Thinks Job Fascinating, Exciting Hazards of the desert fail to faze section and the numerous visitors Barbara Rutherford (7225 assignfrom Sandia's engineering and ed 1613-4), clerk typist in remote research organizations. Technical Area III. She thinks Desert "Hazards"

said.

Some of Area III's inhabitants

are natives of the area and wander

around without benefit of badges.

These are the rattlesnakes, scor-

pions, centipedes and jack rabbits

rattlesnake when one of the fel-

lows brings one in (dead, of

course), but centipedes and scor-

pions are a different matter. I

used to wear sandals to work

but I put on something more

substantial when I discovered

that the creatures were sharing

the office with me," Barbara

What does a girl do in Area

III for recreation? Barbara says

ing volleyball with the men in the

sne spends ner noon nours play

"I get to see an occasional

which populate the mesa.

KEEPING TRACK of Area III's scattered personnel is one of the

many jobs performed by Barbara Rutherford (7225 assigned to

1613-4), only woman employed in Area III test facility.

Distaff Side of Area III Personnel

her job is one of the most interesting in Sandia Corporation. Barbara, the only woman employed in Area III, has put up with all sorts of desert creatures in the two years she has worked

NEW WATER BRAKE on Area III rocket sled vehicles when required. Plume of water, shown

track permits deceleration and recovery of test here, is caused when sled hits water brake.

in the area, and says she wouldn't trade places with anyone. A former superintendent's secretary at Sandia when she worked here from 1948 to 1952, Barbara has been a clerk typist since sherejoined the Corporation in 1956. She has been offered several op-

portunities to transfer with pro-

motions but has turned them all

No Routine Encountered

"Nothing in Area III is ever outine" she says "and everything is constantly changing. I can witness all of the tests performed in the area which provides me with the opportunity to keep up with engineering achievements at Sandia."

Barbara's office is in the control building of Area III, the nerve center from where most of the environmental tests are conducted by remote control. The building is completely covered by an earth barricade to protect its occupants during tests of a hazardous nature.

"Sometimes I feel like a mole in there," Barbara says, "but this has changed since they gave me a window." The window is a closed circuit TV receiver hooked up to a TV camera outside of the building. The set enables Barbara to see when transportation arrives for Area III personnel.

Besides typing all of the reports for the section and keeping account of classified documents, Barbara also serves as the Area III locator, keeping track of the whereabouts of all 17 men in the

A Welcome to Sandia's New Dorothy C. Vass Naomi A. Vickers James C. Mashburn John J. Weimer Betty Lou White Perry R. Wilkes, Jr. Gordon J. Williams A. Fern Yarger rizona Albuquerque \*Linda A. Beattie
Edith J. Brown
Frank B. Collins
Betty S. Davis
Albert P. Disch
Carol T. Evans
Betty L. Furlow
\*\*Patricia J. Hamilt Arizona Ben T. Turner, Phoenix Patricia J. Hamilton Patricia E. Hancock California Paul G. Donninguez, Livermore 8225-1
Paul G. Dominguez, Livermore 8223-1
Harold E. Widdows, San Bernardino 5141
Irwin M. Lachman, San Mateo 1621
Marvin M. McKinley, Jr., Fullerton 2514
\*Charles F. Muehlenweg, San Jose 5131 Geoffrey Polly P. Horne
James J. Jackson
Nora R. Johnson
Harlan P. Kelsey III
Fred R. Krauss
Elaine L. Lupo
Shirley A. McGuire
Grandville R. Mullin
Fermin Nieto
Alice J. O'Meara
\*Edith S. Page
Bobby A. Roane Florida Georgia John W. Carroll, Decatur ...... Kansas Troy D. Bewley, Wichita ...... Bobby A. Roane Florencio Romero Pedro R. Santiago \*Robert F. Scalf Joe L. Silva Archie M. Sorley 2133 2474 Illinois
Elmer L. Devor, Decatur ..... 2474 William V. Knauth, Beech Grove .... 2511 2174 Massachusetts
James E. Smith, Watertown ...... Robert J. Swanson Carol J. Swinney Beatrice D. Tamres Missouri Howard L. Smith, St. Louis New Mexico John W. Coleman, Santa Fe Donald L. Fulton, Carlsbad Patsy R. Tuffnell Bernice M. Tuomi

٩	Employees
	New York Hermann L. Reis, Long Island 8225-1 Henry C. Scheller, Schnectady
	Ohio Kenneth C. Ault, Columbus 2511
	Tennessee *Lucille Farmer, Memphis
	*Joe D. Ferguson, Longview 2124 Jay D. Stern, El Paso 2131
	Washington Lewis E. Clauson, Seattle 8141-2 Ralph E. Freeman, Ephrata 8121-2 West Virginia
	Charles E. Jenkins, Jr., Parkersburg 2721 * Denotes Rehired
	Returned from Leave         2152           Gibson R. Guernsey         2462           Mary G. Austin         2462           Graydon P. Hass, Harris, Iowa         2531           Everett V. Breeden         2154           Tommy A. Sellers, Norman, Okla         5221

# Campfire Girls Candy Sale

Heading the fourth annual Campfire Girls candy sale for the city of Albuquerque is Dwayne Mozey (1224). He reports that the sale will open Nov. 7 and continue through Nov. 23. Housing areas on Sandia Base will be solicited Nov.



LAYOUT of printed circuit and visualization of the finished component is performed by Bob Higley from design engineer's schematic drawing and packaging requirements. Bob's work then goes to a draftsman for final drawing of the circuit to be printed.



TOUCHING UP a duplicate master, a contact photographic print of the original drawing, is done by Bob Velasquez. He checks for defects and adds any necessary markings for the production of the



duced in this huge copy camera by Leonard Malkowski. The duplicate master about to be photographed here will be reduced about four to one in size on the copy camera's negative.



"BURNING IN" the image onto a sheet of pre-sensitized copper clad laminate is Dick Chavez. The process takes about four minutes under a high intensity arc-lamp to obtain a good pattern fix.



ETCHING the excess copper from the laminate is done by ferric chloride acid spray inside the tank by Dick Chavez. Both sides of the circuit card will be etched simultaneously.



DEVELOPING the image on the laminate is performed by Kenny Anderson. Here he washes excess dve from the plate leaving only the exposed writing pattern visible on the copper.

# Printed Circuit Shop Expands; Open House to be Held Nov. 10

circuits have become a standard item in industrial electronics. At Sandia Laboratory, the first investigation of printed circuits was begun in 1953 and now five years later their use is almost universal in weapon electronic components.

From a small experimental facility in Bldg. 821, Sandia's printed circuit shop has grown to a new fully equipped production center in Bldg. 839 where some 1200 custom printed circuits are produced monthly for Sandia's research and development organiza-

Open house of the facility will be held on Monday, Nov. 10, to show interested supervisors and design engineers the new capabilities of the shop. In addition to production of printed circuits, the shop performs layout, mock up and assembly of electronic components utilizing printed cir-

Pictures on this page illustrate the printed circuit shop in action.

#### Circuit for Prototypes

"Since we make circuits for only prototype models at Sandia, production of large numbers of printed circuits is not our concern. Still, production is the chief advantage of printed circuits," Art Cordova (2133), supervisor of the shop, says. "In hand wired circuits of high complexity production costs run high and standards and quality become a problem.

"Once a printed circuit is drafted, it is photographed and any number of master negatives can be produced, stripped together and 'burned in' on large sheets of photosensitive copper clad epoxy glass laminate. The copper is etched away in a chloride bath leaving only the lines of copper that would correspond to wires.

"The individual circuit cards are cut apart, trimmed to size and drilled. In large production facilities this is done by automation and is relatively inexpensive.

"Not to be overlooked is the fact that all printed circuits produced from the same original drawing perform the same way-no variations. Performance and quality are assured,"

### Work in 1953

Art was one of the first Sandia employees to investigate the uses and manufacture of printed circuits back in 1953. He was assigned to investigate all available sources of information and establish a facility as part of the Model Shops organization.

"There was no doubt that printed circuits would be ideally adaptable to weapon components," Art said. "The first year was spent in learning techniques of production and establishing a working shop in Bldg. 821. From then until now we have been busy filling orders from Sandia's design enginuity sometimes in adaptions and special uses, but we've managed to fill the orders.

In the beginning the printed circuit shop had only three employees. Now the shop employs 14 specialists including copy camera operators, technicians plotting circuit layouts and assemblers of complex miniaturized components.

Story of Growth "The story of Sandia's Printed Circuit Shop has been one of con-

cilities are adequate for current and anticipated needs of the Corporation," Art said. "Still, part of our job will always be to keep experimenting in new techniques, new materials as suggested by organization 1600 process engineers or requested by other design groups. It is a sure bet that as technology continues to advance, so will the applications of printed



ON DELIVERY of finished job, assembled and packaged, it is ready for the "customer's" use, in this case D. W. "Doc" Savage (5224), right. At left, Art Cordova, Printed Circuit Shop supervisor.



PRECISION DRILLING with a tolerance of .005-in. is done optically by George Hernandez. The holes in the printed circuit card are for eyelets or they are plated to allow flow-through of current from one side of the card to the other to continue circuit.



ASSEMBLY OPERATION, attaching small electronic components to the printed circuit cards, is done with care and patience. Cleanliness is a necessity as any foreign matter in the assembly

affects performance. (L to R): Jake Sandoval, Dick Chavez, Kenny Anderson, Jim Uhl, Bob Velasquez and Leonard Malkowski. The spotless laboratory is a new addition to the Sandia plant.

Nov. 1-14 Richard V. Pass 1544, Kathryn F. Vickery 7225, Norma N. Goodwin 7226.

### Two-Year Certificates

Nov. 1-7

Nov. 1-7

Flossie G. McCoy 3160, Louise S. Winner 7225, Yvonne M. Maxwell 1611, Charles E. Gumley 1451, Donald R. MacKenzie 5142, Dale G. Ahlstrom 1611, Marvin E. Range 1246, Melvin C. Johnson, 1614.

Robert D. Grover 1217, Lawrence S. Johnson 1222, Earl G. Smith 2154, William H. Thompson 2415, Robert G. Hauff 8114, Sharon R. Davis 2554, Maude A. Rafter 2464, Doris H. Kokkes 2721.

Howard D. Hayden 2464, Geneva M. Erickson 8212, E. Marie Hayden 8222, Jean M. Carmichael 2232, Hugh I. McLaren 7232, Ray P. Reed 5131, Lewis A. Faw 2552, Cecil S. Sonnier 1218, John L. Gunby 2411.

Larry D. Ross 2124, David L. Chavez 2474, Margaret V. Potts 4141, Emily W. Wood 7225, Adolfo E. Maes 2461, Frank A. Toya 2461, Richard D. McKee 7412, Donald W. Commons 5243, Clifton B. Kinabrew 5531, Arthur D. Knowles 8113, Joseph W. McDowell 2514, John P. Moffet 2151, Arthur Starz 2124, Francis A. Gunn 7233, Sally A. Calder 2224, Lucille R. Montoya 7121, E. Y. Shortell 7423, Kenneth A. Johnson 4333, Jack M. Miller 3242, Charles H. Sanchez 3242, Nancy T. Feight 5241, Don L. Gorsline 5232, Glenn E. Richardson 1245, Thomas E. Henderson 2152.

#### Nov. 8-14

Nov. 8-14
Hazel O. Whitlock 7225, Raymond C. Fry
7412, Jesse L. Getz 2552, Milford J. Davis
5513, Mildred G. Slaven 4135, Nettie M.
Silence 7225, Barbara L. Hay 2221, Nina G.
Read 5241, Vance E. Prutsman 3242, A. Trujillo, Jr. 1455.
Ross R. French 5231, Henry I. Libby 5215,
R. L. Offill, Jr. 2132, Robert F. Knight 2124,
Jack L. Baxter 3242, Arnold C. Strasburg 5523,
Andrew J. Fuller 3124, William E. Putnam
2161.

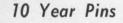


Marlon W. Hancock 2465 Nov. 2, 1948





Kenneth E. Bricker 5531 Armand F. Fink 5215 Nov. 8, 1948





Harold Christenson 2112 Nov. 1, 1948

Eugene H. Pratt 5523

Nov. 1, 1948

Jerry Olguin, Jr. 2711 Nov. 2, 1948

Leon V. Day 5215

Nov. 9, 1948



Nov. 1, 1948

Earle C. Pace

Nov. 1, 1948

Rosalie F. Crawford

Nov. 3, 1948

Rose W. Pelz 7231 Nov. 9, 1948



Leandro Garcia 2474 Oct. 20, 1948

Edward F. Ehrman 1452 Nov. 1, 1948



Florence R. Gamez 7221 Nov. 1, 1948



Henry Schutzberger 5242 Nov. 1, 1948



Jose A. Silva Nov. 1, 1948



Vernon C. Garratt 2522 Nov. 3, 1948



William H. Shively 2413 Nov. 4, 1948



Max Weber 5121 Nov. 10, 1948



Willis M. Jobe 2411 Nov. 12, 1948

# APAR Paper Will Be Read at Meet

**OCTOBER 31, 1958** 

A technical paper, "Automatic Programming and Reporting," by Thomas F. Marker (1520) will be presented at the Eastern Joint Computer Conference in Philadelphia Dec. 3-5.

The paper describes APAR (Automatic Programmer and Recorder) developed by Automated Data Systems Division 1520. The device takes commands from prepunched paper tape, controls tests on weapon components, and then reports the results on punched paper tape.

# Two Employees Appear On ASOC Program

Two speakers will be featured at the American Society for Quality Control meeting Monday, Nov. 10, in Room 122, Mitchell Hall, University of New Mexico.

Charles R. Clark (1592-1) will talk on "Binary Arithmetic" at 7:30 p.m. This subject will supplement the other speech by Tom Marker (1520) on "Automatic Programming and Recording" since many computers operate on binary arithmetic methods.

# 95 Per Cent Employees Enroll in Supplemental Life Insurance Plan

Total enrollment in the Supplemental Group Life Insurance reached 95 percent this week as 6516 employees had signed up.

The International Guards Union of America, Local Number 27, had the highest number of members participating with 98.7% in the union enrolling.

Today is the final day for enrollment, and complete figures will be reported in the next issue of the Sandia Lab News.

# **Reactor Fundamentals** To Be Discussed by University Engineer

PAGE SEVEN

SANDIA LAB NEWS

Nuclear Engineering Professional Division of the New Mexico Section of the American Society of Mechanical Engineers will meet Wednesday, Nov. 5, at 7:30 p.m. in Room 2, Mechanical Engineering Building, University of New Mex-

Dr. Richard C. Dove, associate professor of Mechanical Engineering at the University, will present "A Brief Discussion of Nuclear Re-actor Fundamentals." Certain of the basic concepts of nuclear fission, radioactivity, reactor physics and shielding will be reviewed and explained.

Non-members are invited to attend, according to Martin Corney (2532), publicity chairman.

# PGA Meeting Nov. 13 Features C. W. Remaley

Professional Group on Audio of the Institute of Radio Engineers will meet Thursday, Nov. 13, at 8 p.m. at the Radiation Therapy Building, Lovelace Clinic.

Charles W. Remaley (1613) will speak on "Sound, A New Tool for Testing." He will discuss the generation and application of high intensity sound to environmental testing of electronic and electromechanical equipment.

# Computer Demonstration Set for AIEE Nov. 3

Demonstration of the Berkeley Analog Computer will be presented at the Nov. 3 meeting of the Northern New Mexico Section of the American Institute of Electrical Engineers at Kirtland Air Force Base at 7:30 p.m.

Lt. L. E. Cattlett of the Research Directorate Analysis Division at Kirtland will be the speaker, reports Bill Johnson (1611), publicity chairman.

### SHOPPING CENTER

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### CLASSIFIED **ADVERTISING**

Deadline: Friday noon prior to week of publication unless changed by holiday.

### RULES

- 1. Limit: 20 words
- One ad per issue per person Must be submitted in writing
- Use home telephone numbers For Sandia Corporation and
- AEC employees only
- No commercial ads, please 7. Include name and organization.

# FOR SALE

30 GAL, gas water heater, space heater, '54 Olds heater, misc. or trade for trailer, pipe cutter or skill saw. Aaron, 508 Maple SE.

Maple Sc.
HIDEAWAY BED, Simmons, green wool up-holstering, \$75. Jaramillo, AX 9-0770.

'58 FORD Fairlane, 4-dr. sedan, two-tone, tinted glass, cruis-o-matic trans-mission, 265 hp interceptor, V-8 engine, heater, other extras. Morehouse, AX

'51 NASH Rambler, \$300. Metal luggage rack, \$10. Halliday, AL 6-6685.

PARAKEET bird cage; Odin double oven gas range; 20" boy's bicycle. Cason, AX 9-7427, 8707 Menaul NE.

MAPLE HUTCH desk, \$20; two maple bookcases, two maple cricket chairs, \$5 each; two metal bed frames on rollers, \$3 each. Littrell, AL 5-4620, 2820 California

'49 STUDEBAKER ½ ton pick-up, R&H, overdrive and overload springs, \$175. Randle, AL 6-1747.

MUSICIAN'S AMPLIFIERS, portable, 15 watt, \$20; 20 watt, \$35; 25 watt, \$75, speakers included. Gibson guitar pickup, \$17.50. Braffett, CH 2-5429 after 5 p.m. WEDGEWOOD STOVE, 40" wide; Frigidaire drier. \$75 each. Phillips, 3041 33rd Place, Sandia ext. 46284.

BLACK MARE, 3 years old, gentle for children. Can be seen at 2448 De Vita Rd. SW or call Montano, CH 2-6584 even-

HEARING AID, Sonotone, 4 transistor unit, never used, cost \$179, will sell for \$75. Newman, AL 6-3295. WEBCOR "Imperial" 4-speed changer less cartridge, \$30 or best offer. Sayers, AL 5-5773 after 5 p.m.

VENDING MACHINES, five 1 cent Atlas globe type, \$8 per machine or \$35 for lot. Clemons, AX 9-6004.

REMINGTON Model 721, used once, recoil pad, sling, leather case, box of ammo, \$100. Want to buy 8" table saw with tilting arbor. Underwood, AL 6-7709. 35 mm CAMERA, Konica III-A with case, latest model, brand new, \$95. Regular price \$143. Sisler, ext. 25173.

AMERICAN ORIENTAL rug, 9 x 12 with pad, \$25. Small household items. Mrs. Bakie, AX 6-6589.

1/2 TON PICKUP, '57 Chevrolet, V-8, with camper, \$1800 or best offer. Also 3 bedroom home, 13/4 bath, \$13,350 with \$1,000 down. Edmondson, AX 9-3908. ARABIAN MARE. Skaller, AM 8-2328.

'58 LAMBRETTA Scooter, fully equipped, less than 2,000 miles, \$312. Snook, AL

CLARINET, \$25; Coronet, \$75; gasoline auto heater, 6 volt, \$15. Singleton, AX 9-1613.

SIMMONS COUCH, green, makes into bed, \$75. Davis, 7711 Morrow NE. REFRIGERATOR, 12 cu. ft., \$50, M. W. Milligan, 1019 Cerro Vista Rd. SW, CH 3-8551.

J-8551.
FIGURE ICE Skates, Ladies, size 5; baby crib and mattress, size 2-6 years. Houghton, AX 9-7419.
DRAWING SET, Riefler; Post Versolog sliderule; engr. scale; architectural scale; pencils; Harper pen with extra points. \$47 value for \$32.50. Monson, AL 6-5001 after 5 p.m.

TABLES, light finish, 2-tier end, end and coffee, glass tops on two, \$25. Hodyke, AL 6-5210.

42" GAS RANGE, Wedgewood, 6 burner, griddle, 2 ovens, 2 broilers, light. Sell or trade. Silva, 1720 Wilmoore SE, CH 3-0191.

SCHWINN 26" boy's bicycle, \$10. Raben-horst, AX 9-3807.

FUR COAT, brown, size 12. Cost \$125, will sell for \$50. Fortman, AX 9-5924. NO FORD vertible, new white top and good paint, good motor, \$275. Deely, DI 4-6085.

3 BR. MOSSMAN, hdwd floors, fireplace, air cond., walls, carpeted, cathedral ceiling, pitched roof, near Menaul & San Mateo. Corney, AL 5–1490.

HAND KNITTED articles, ladies stoles, boby sets, etc. Will custom-make. Meek, AL 6-1210. 17" TV, GE, limed oak table model w/table, \$50; shotgun, 12 ga. Springfield auto-matic w/case and cleaning equipment, \$80. Galbreath, D1 4-4306.

GAS RANGE, Magic Chef, swing-out broiler, divided top, \$25. Thompson, AL 5-4081, 1020 Arizona SE.

ENGINE, 1956 model Chevrolet 6, com pletely overhauled, "not a short block," \$150. Burns, AL 5-3737.

MUSKRAT COAT, 3/4 length, ladies size 18, \$20 or best offer; ladies grey suit, size 16, \$5 or best offer. Wagner, AL 6-1424.

USED COUCH w/slip cover also matching chair, both for \$25 or best offer. Gasser, AL 5-4562. ELECTRIC STOVE, General Electric, 37",

deep well, oven, broiler, storage com-partments, \$95. Crandall, Ext. 4-6275.

2 BRM. HOME, central heat, utility room, garage, trees, garden, two blocks to Assumption School, stove, \$550 to new FHA. Glenn, AL 5-6569.

ROLLAWAY BED, \$10; black lizard spectator pumps, size 31/2B, 21/2 inch heel, new, \$5. Anaya, AL 6-0051. RCA RECORD PLAYER, 45 R.P.M., \$8. Car-cooler, evaporative type, \$2. Negaard, AX 9-2830.

7 VOLKSWAGEN, radio, leatherette, seats, low mileage. Newman, CH 3-1496. 157

## NEXT DEADLINE

FOR SHOPPING CENTER ADS Thursday Noon - Nov. 6

ELETRONIC ORGANO, Lowrey, 60 notes, 12 stops, adapts to piano keyboard, play organ, piano or both, \$150. Stover, CH 2-8764 after 7.

4 BRM. HOUSE, 13/4 bath, \$13,500, existing 41/2% loan; Ben Turner original Indian pointing, \$100; Indian pots, baskets. Thomas, AX 9-3838.

12x14 BEIGE RUG, \$30; baby crib, \$20; handmade quilt, \$5. Koletar, AL 5-4751. DRAFTING TABLE, Post "Norwood" model, 36x58, w/adjusting stand, sells new, \$72, sell for \$30; 20 inch window fan, 2-speed, \$20. Tennant, AX 9-6344.

ROLLER SKATES, girl's size 13, genuine Chicago shoe skates, toe stops, white, \$7.50. Smith, AM 8-2368.

FULL-SIZE BED, complete w/mattress, box springs, also vanity to match, \$15. Uhl, AM 8-1855.

WINTER TREAD TIRES, 2 Dunlop white sidewalls, tubeless, 6:70x15, used 1,000 miles, \$35. Schaub, AL 5-8270 after 5.

SADDLE MARE, light palomino, 3 years old, \$300. Russell, Box 449, Vineyard Road NE, DI 4-3771. SEWING MACHINE, Singer portable with case. Reasonable. Murray, DI 4-5289.

EZ SPINDRIER-Washer, ancient but it works; two fibre rugs, 5' x 8' and 9' x 12', latter nearly new; three items for \$25. Belote, AX 9-1301.

'54 BUICK Super, 2 dr. hardtop, R&H, T/glass, tritone paint, Firestone "500" whitewalls, original owner, \$995. Clark, AL 5-5747.

DINETTE SUITE, 5 piece, solid oak, \$20; Crosley table model TV, 21", \$60. Henry, AX 9-0536.

1/4 HP MOTOR, Power King, 1725 RPM, motor with pulley, \$10. Louderbough, CH 3-8469. '49 PONTIAC, 4 dr. sedan. Morison, AX

ALTO SAXOPHONE; oak high chair; large playpen; bathinette; baby scales; antiq wash stand. Farness, 9318 Shoshone R NE, AX 9-1207.

PUPPIES, will be 8 weeks old Christmas, ideal gifts, \$5 each. For further information call Knight, AX 9-2700, 10120 Propps Dr. NE.

GE ELETRIC RANGE, 30" oven, \$125. Also
Easy ironer, Muntz 21" console TV,
other Items. Wank, AX 9-3450.

26" BIKE, girl's. Dulz, AL 6-1653. '57 METROPOLITAN, 2 dr., hardtop, two-tone, green & white, R&H, 8600 miles. Will consider cheap trade-in. Roy, AL 5-7427.

JIG SAW 13", \$20; band saw 10", \$45; table saw 8", \$45; electric drill 1/4" \$8 and misc. tools. Pliner, 6210 Bellamah NE, AL 6-1907. MIXER, Sunbeam deluxe, all speeds, white, 3 bowls, used only twice, \$20. Graham, AM 8-8967. DINETTE SET, solid maple, chairs need refinishing. Make offer. Mallory, AX

'57 OLDS Super 88 4-dr. hardtop, R&H, power steering, power brakes, \$2350. White, AX 9-3095.

BOSTON TERRIER, 8 months old male, show prospect, price open. Russell, see at 1308 Indiana NE after 6 p.m. and on weekends. 30-06 WINCHESTER Model 54, \$60. Fornero, AL 5-9879.

POWER MOWER, 18" Excello with Briggs and Stratton 4 cycle gas engine, \$49. Hook, 1413 Truman NE, AM 8-0291.

.22 REVOLVER, K-22 S&W, practically new, \$60; Weaver K-8 telescopic sight, 8-power, never used, \$40. Shunny, AX

'57 MAICO Scooter, 14 hp, 100 mpg, 60 mph, reasonable. Stearns, CH 2-6830.

STEVENS SHOTGUN, 410 bolt action, incl.
70 rounds ammo., \$30 or trade for good
.22 repeating rifle for longs or shorts or
long rifle. Lopez, AX 9-0941 after 5
p.m.

TRAILER, 2 wheel, 7 x 3½ x 2 ft. deep box, ball hitch, '58 New Mexico license, \$50. Tidwell, AX 9-2158.

LADIES FUR COAT, mink dyed Russian marmot, \$200, cash or terms. Insulated dog house. Villella, AL 6–1881.

3 BR, 13/4 baths, den, Hoffman Royal home; disposal, dishwasher, carpeted throughout, circular drive, beautiful landscaping. Preston, AX 9-1948.

'52 PLYMOUTH, 4 Dr. Nielsen, AX 9-2919. GIRL SCOUT Brownie dress, size 8; Boy Scout uniform, size 14. Nissen, AL 5-5657.

DINETTE non-scratchable top table, 4 chairs; Walkie-talkie crystal controlled receiver and transmitter on 29.6 mc; shotgun, Browning automatic, 16 gauge. Nelson, AM 8-8455 after 5 p.m.

UPRIGHT FREEZER, Maytag, over 600 lbs capacity, must see to appreciate. Serna, 733 Monroe NE, AM 8-8084.

MOBILE STATION, complete 6 volt station; Elmac 54 transmitter; PMR 6A re-ceiver; power supply with cables. Also SX-71 receiver. Hungate, AL 6-6545.

REMINGTON PUMP, 30-06, almost new. Ewing, AL 5-1958.

DINING ROOM light, \$2; air compressor, \$40; fluorescent kitchen light, \$4. Johnson, AL 5-5427. PIANO. Make offer on \$1,100 Honduras mahogany Baldwin Acrosonic console. Matching 21" TV-radio-record player com-bination. Blackwell, AL 5-7677.

DEEP FRYER, General Mills, practically new, \$10. Boling, AX 9-1346. VIOLIN, \$25; '58 Rambler, 6 cylinder, O.D., sedan, \$2500. Huddle, AX 9-6603. PHOTOGRAPHIC ENLARGER, \$20. Kulter-man, Ext. 48167.

TWO MUFFLERS, Tru-Tone Glass pack for '57 Chevy, \$5 each or best offer. Ingram, DI 4-5756.

ELECTRIC RANGE, \$125; refrigerator, \$150, both '57 Admiral models; '57 Norge automatic washer, \$125. Atkins, CH 2-5927 after 5:30 weekdays.

'56 MERCURY Montclair, R&H, Merc-O-matic, PS, PB, WSW, TG, \$1,550. For-nero, AL 5-9879.

FRESH, HEALTHY apples from our own orchard, come any time. Cully, DI 4-7055, 847 Adobe Rd. NW. EASY SPINDRIER washer, \$35; china dishes, service for six, \$18; trade for guns, daggers. Smitha, AX 9-1096.

AUTOMATIC WASHER, G.E., 9 lbs., needs minor adjustment, best offer. Johnson, AL 5-9208, 6205 Alta Monte NE.

TBY TRANSCEIVER, easily converted to 2 meter rig, voice or MCW, includes transceiver, 5 MC crystal calibrator, mike, headset, antenna, case, \$35. Anselmo, AX 9-4668. GAS STOVE, 8 ft. refrigerator and new Marvel air conditioner, window type, all for \$100, available Nov. 15. Pepmueller, AL 6-9129.

'57 CUSHMAN Eagle, many accessories, good rubber, Bing carburetor, recent overhaul, \$250 or best offer. Miller, AL 6-6020 after 5:30 p.m.

# WANTED

EXERCYCLE at very low price. Weber, AX 9-1389.

EXERCYCLE. Gustin, AL 6-3807 after 5. FREEZER, 12 cu. ft., 1 to 3 years old in good condition. Alderete, AL 6-6047.

SLEEPING BAG, Navy issue. Pritchard, AL 6-5667. OLD DAGGERS, knives, guns of any kind, private collector, will pay cash. Smitha, AX 9-1096.

HOMES FOR KITTENS. Still need a good home for a small stray kitten. Tatum, CH 2-9021.

CHILD CARE in my home, 5 days a week, close to Sandia. Gonzales, 434 Louisiana NE.

B FLAT CLARINET (wood), cheap. Vale, Ext. 22284. PAINT SPRAYER set, not over \$50. Miller, AX 9-2736.

30-06 REMINGTON model 740 only, with or without scope; will consider 308 Winchester semi-automatic, do not call Winchester semi-automatic, do not ca unless you want to sell. Clark, AL 5-5747.

# LOST AND FOUND

LOST—\$5 bill in Bldg. 800-802; rhinestone pin w/deer made in Wales; cameo ring left in 880 restroom, plastic folder containing valuable papers. LOST FOUND, Ext. 26149.

FOUND—New Testament Bible, 4 keys on ring, pendant w/initials JCP, bread-board model, electronic; brown leather bill clip w/metal saddle, black and white frame sunglasses, 2 trailer keys. LOST AND FOUND, Ext. 26149.

### LIVERMORE FOR SALE

3 BEDROOM HOME, 2-car garage, 1687 Spruce St. on corner lot, Gl loan, \$3500 down. Barnes, HI 7-4097.

# "Great Decisions" Program **Attracts Many Sandia People**

Several Sandia Corporation employees are taking an active part in planning for Albuquerque participation in the "Great Decisions of 1959" program. "Great Decisions" is a nationwide community discussion program in which friends and neighbors get together in small groups, once a week for a series of eight meetings, to discuss selected topics affecting our foreign policies. The discussions are held annually in February and March.

Lynn Castle (3124) has been selected as chairman of the steering committee making arrangements for the Albuquerque program. Other Sandians assisting him on the committee are W. G. Funk (3125), T. B. Sherwin, (3125), R. A. Quelle (3152), Jean Gillette (3124), and Joe Calek (3124). A number of other Albuquerque citizens are serving on the committee and will be active in organizing discussion groups during the next two months.

Assisted by discussion guides and background information provided by the non-partisan Foreign Policy Association, the small groups of neighbors meet in homes and exchange views, then fill out a questionnaire giving their views on the topic under discussion. No effort is made to reach common agreement or to obtain a consensus, but the results are tabulated by a local committee and forwarded to the State Department as an indication of local sentiment on the issue.

Tentative topics selected by the Foreign Policy Association for discussion are: Challenges of a Changing World — Introduction, Will Alliances Keep the Peace?, Are We Realistic About Communist Powers?, Peace in the Middle East-Whose Job?, A "Better

# Deer, Elk Hunters: Now You Can Get Rid of Antlers Too

The last issue of the Sandia Lab News told hunters what to do with unwanted hides, now here's a way of putting the horns to

From Los Alamos comes word that there is a need for deer and elk antlers that are well identified as to time and place of procurement for use in fallout measure-

Seems that calcium concentrated in a pair of elk antlers is about twice to three times the amount that a human skeleton concentrates in an entire lifetime. Therefore, any fallout encountered while the animal is grazing in less than a year can easily be measured.

At LASL the man to contact is Harry Foreman, tel. 7-4281. Incidentally, any fallout that might concentrate in the antlers of your elk or deer will in no way affect the meat.

### Eight Complete Fall Red Cross First Aid Course at Livermore

Certificates of completion were issued by instructor Ray Sheppard (8152-1) to eight Sandia employees recently for successfully completing a Red Cross standard first aid

Those receiving cards were: John S. Anderson (8162-2), John A. Herbolsheimer (8141-4) and his wife; John D. Hitchcock (8116-1), Harold G. Short (8121-2) and his wife; and James B. Wright (8162-2) and his wife.

Among the ladies at Sandia to receive certificates were: Irmal R. Brown (8161-2), Ferne L. Saylors (8161-2), and Shirley L. Wells (8212-3).

Because of the interest shown when the course was first offered. a new class in first aid began Oct. 22 for employees and their families. The class was again conducted by Ray Sheppard.

Neighbor" Policy for Latin America?, What U.S. Policies in the World Economic Revolution, The New Technology-for Destruction or for Plenty, What Kind of World is Possible, What Challenges to Diplomat and Citizen.

The more people participating in the program, the better, according to Mr. Castle. Interested employees may obtain further information from any member of the committee. Discussion leaders are especially welcome but others who wish to participate in a less prominent role will be equally essential to the program.

According to R. B. Powell, Superintendent of Personnel and Public Relations, the Great Decisions program is an ideal supplement to the recently launched program of awakening employees to the dangers of Communism. By discussion of problems affecting our international diplomacy we will become more alert to the activities of the Communists and the extent to which they are influencing these important matters. (See story elsewhere in this issue on special TV program on Russian propaganda to be seen in Albuquerque area Nov. 2.)

This is the fifth year the Great Decisions program has been carried on nationally but the first time it has been attempted in Albuquerque. A minimum of 100 discussion groups is being sought to launch the plan here.

# Welding Aluminum Program for AWS

George Frehafer, a welding specialist for Reynolds Metal Co. in Richmond, Va., will speak on "Welding Aluminum and Its Alloys" at the American Welding Society meeting Thursday, Nov.

It will be held at the Silver Spur restaurant at 7 p.m. Vince Nelson (1621), ext. 32246, may be contacted for reservations.



SANDIA MEMBERS of the M.I.T. Regional Conference to be held in Albuquerque Nov. 8 are pictured here. (L to R): J. E. Gross (1413), F. J. and G. W. Rollosson (5221), all M.I.T. Alumni.

Given (7000), committee chairman, W. R. Perret

# **Bids for Modification** Of Bldg. 828 Will Be Opened on Nov. 14

Renovating of Bldg. 828 for use by the Electronic Test Equipment Department 1540 will begin after bids are opened for the modification project Nov. 14, the AEC has announced. Cost of removing partitions, installing new partitions, duct works, lighting, power outlets and general modification is estimated to range between \$35,000 and \$40,000.

Department 1540 is currently located on the third floor of Bldg. 802. The new facilities will give the organization more space for larger equipment for use in designing, fabrication and testing of quality assurance systems test de-

# Role of Southwest in Science Is M. I. T. Conference Theme

"Engineering Our Future: The Role of the Southwest" is the theme of a regional conference sponsored by alumni of the Massachusetts Institute of Technology to be held in Albuquerque Saturday, Nov. 8.

Fred J. Given, Vice President, Research and Development Technical Services (7000), is chairman of the conference committee and F. C. Alexander (4111) is vice chairman. Several other Sandians and townspeople who are M.I.T. graduates comprise the committee.

The one-day meeting, which continues the tradition of highly successful M.I.T. conferences held



Dr. Killian

Dr. Stratton

in Tulsa, Los Angeles, Chicago, Washington, New York and other cities, will bring to New Mexico top educators, engineers and scientists who will discuss the latest technological developments as they apply to the Southwest. Civic leaders and other non-technical people will join M.I.T. alumni in the meetings.

# Dr. Killian Speaks

Featured on the program will be Dr. James R. Killian, President of M.I.T. and Special Assistant for Science and Technology to the President of the United States. and Dr. Julius A. Stratton, Chancellor of M.I.T. and Acting President, who will address the conference at the concluding dinner at 7 p.m. at the Alvarado Hotel.

Dr. James W. McRae, Vice President of the American Telephone and Telegraph Company and until last month president of Sandia Corporation, is included in the list of distinguished speakers for the conference. His subject will be "The Challenge" and will cover the dangers the U.S. faces in the military challenge of the Soviet Union, burgeoning world population in the face of dwindling food supplies. and the challenge of inadequate international relations.

Professor Charles L. Miller, Director of the M.I.T. Photogrammetry Laboratory, will discuss a new technique in civil engineering that is considered revolutionary in highway building. His subject will conducted by the Information and .be. "Civil Engineering and the Futare."

"Energy for Future"

"Energy for the Future" is the subject of Dr. George R. Harrison, Dean of the M.I.T. School of Science. He will discuss how man is rapidly increasing energy control and energy control as a major determinant in human affairs.

Dr. James A. Phillips, Physics Division Group Leader, Los Alamos Scientific Laboratory, will discuss "Progress in Using Fusion Energy." He will present the most up-tothe-minute thinking on the basic question "Will fusion energy provide a major source of power in the years ahead?"

"Space Science" will be the subject of Dr. Charles S. Draper, Head of the M.I.T. Department of Aeronautical Engineering. He will discuss how science as well as experienced engineering judgment must be drawn upon to solve the problems of flight technology.

Daytime sessions of the conference will be held at the Albuquerque National Bank Building, third floor. The morning session will be moderated by Tom Popejoy, President of the University of New Mexico, and Dr. E. J. Workman, President of New Mexico Institute of Mining and Technology, will moderate the afternoon session. Mr. Given will be Toastmaster for the dinner at the Alvarado Hotel.

# Scenic Tour

Registration fee, which includes all sessions, buffet luncheon, reception and dinner is \$17.50. Fee for the reception and dinner only is \$12. At Sandia reservations may be made by calling F. C. Alexander, ext. 25122, or any member of the committee. A capacity crowd is expected and early reservations are recommended. Other Sandians working on the Conference committee are G. W. Rollosson (5221), W. R. Perret (5112) and J. E. Gross (1413).

As a sidelight to the conference, the committee has arranged for a two-day tour, limited to attendees of the conference, to scenic and historical places near Albuquerque. On Thursday the group will go to Taos Pueblo and other Indian pueblos along the Rio Grande, spending the night in Taos. Friday will be spent in Santa Fe touring historical sites such as the Palace of Governors. Cost of the trip is \$25, excluding meals.

# Lava Bed Near Grants With Treasure Legends Goal for Mountaineers

The "Malpais," 30-mile long volcanic flow southeast of Grants, will be the destination of tomorrow's Mountain Club outing.



WINNER of the Sandia security symbol contest was L. V. diLorenzo (8221) shown here receiving a \$25.00 savings bond from G. A. Parker, Jr., Superintendent of Industrial Relations.

# Mr. 'Q' Wins Bond for diLorenzo In Security Animation Competition

Mr. "Q," a dapper gentleman with top hat and cane, won his creator L. V. diLorenzo (8221) a \$25 savings bond for being selected to represent Sandia Security Education.

Mr. "Q" will adorn posters, displays and training films produced for Plant Security Department 3240. He is now undergoing modification by Technical Art Division (2463) for animation.

Vince diLorenzo recently transferred to the Livermore Laboratory of Sandia Corporation Security and Documents Division where he is a classification analyst. He held the same position in Albuquerque in the Technical Information Division 7223 since March, 1957.

The security symbol contest was Physical Security Section. 5